(No Model.)

A. McL. ROWLAND.

PAPER HANGER'S ROLLER.

No. 354,810. Patented Dec. 21, 1886.

Fig: 1.

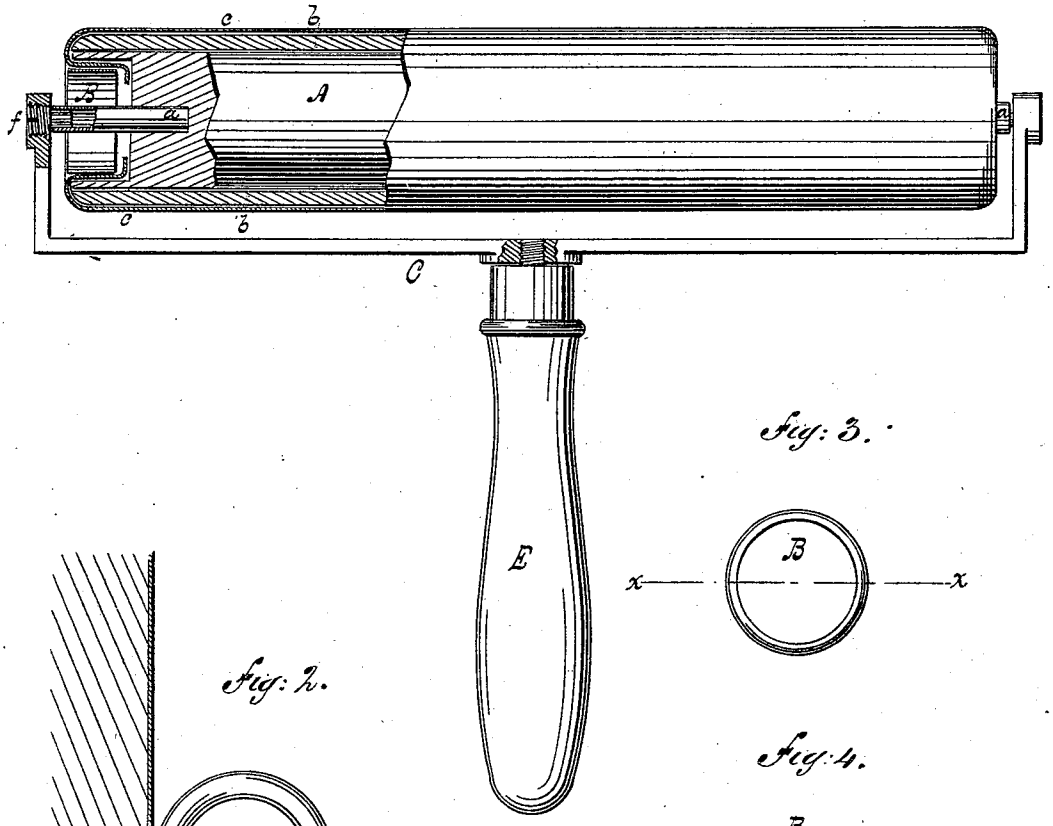


Fig: 3.

Fig: 2.

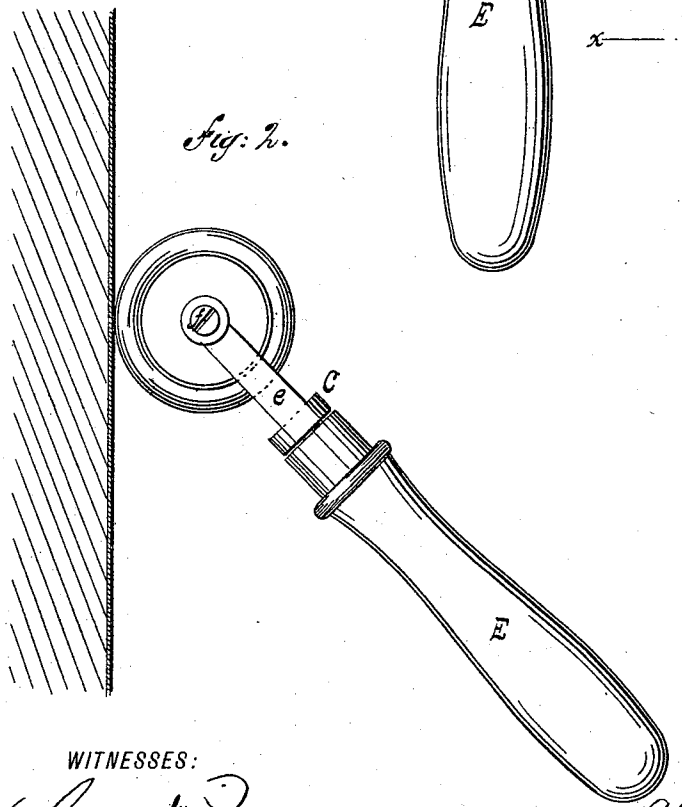
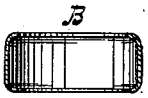


Fig: 4.



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PAPER-HANGER'S ROLLER.

SPECIFICATION forming part of Letters Patent No. 354,810, dated December 21, 1886.

Application filed July 14, 1886. Serial No. 207,993. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER McL. ROWLAND, of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Paper-Hangers' Rollers, of which I declare the following to be a full, clear, and exact specification, reference being had to the accompanying drawings, forming a part thereof.

This invention relates to improvements in rollers for paper-hangers' use; and the invention consists of an improved paper-hanger's roller of the particular construction herein described, shown, and claimed.

In the accompanying sheet of drawings, Figure 1 is a side view, partly sectional, of my roller. Fig. 2 is an end view of the same. Fig. 3 is an edge view of the rings B. Fig. 4 is a sectional view of the same in the line *x x*, Fig. 3.

Similar letters of reference indicate like parts in the several figures.

By the means of this invention it is sought to provide for paper-hangers a simpler, cheaper, and better roller for smoothing the paper when it is placed upon the wall than any of the similar appliances now in use for that purpose. The foundation of my roller is a solid cylinder, A, of wood or any suitable material, its length and diameter being such as to make it of a convenient size. The ends of this cylinder are recessed, so that each has the shape shown in Fig. 1. Into the ends of the cylinder are tightly inserted a short distance small tubes, *a*, whose axes coincide with the axis of the cylinder, and whose outer ends are allowed to project somewhat beyond the extremities of the cylinder. Two rings, B, are provided, which may be made of brass or other substance. Their size should be such as to admit of their passing loosely into the recesses before mentioned, and their edges may for convenience be slightly turned over, as represented in Figs. 3 and 4. About the lateral surface of the cylinder described is wound a thickness of felt or similar material, *b*. This is designed to form a permanent portion of the roller, and may be glued to the surface beneath it. The exterior of the roller consists of a layer of muslin or other light fabric, *c*. This covering it is desirable frequently to renew, for when in use it absorbs paste, and becomes at length unfit to be longer retained upon the roller.

To prepare the covering a strip of fabric is taken which is somewhat longer than the roller and wide enough to be wrapped snugly around it once. The longer edges of the fabric are sewed together, so that it forms a case open at both ends. This case can be readily drawn on or off the roller, and may be replaced by a new one at pleasure. It is held in position smoothly upon the roller by means of the rings B and the recessed ends of the cylinder A. Its adjustment is secured by folding its ends, which should be permitted to project beyond the roller in both directions over the edges of the recesses in the cylinder A, and then pressing the rings B firmly into the recesses, so as to clamp the fabric of the case between the walls of each recess and the convex surface of the corresponding ring, as shown in Fig. 1.

The purpose of turning over the edges of the rings, as above mentioned, is to facilitate pressing them into and withdrawing them from the recessed ends of the cylinder.

The construction of the roller proper has now been completely described. For convenience in operating it a suitable frame should be provided in which it may be mounted. The frame shown in the drawings is the one which I have adopted, though one of another form might be equally as efficient. This consists of a bar of metal, C, of the proper length and size, bent near each of its ends, so that there are formed, at right angles to the direction of its length, two arms, *d* and *e*, which are somewhat longer than one-half the diameter of the roller, and far enough apart to receive the roller longitudinally between them. Near the end of each arm a hole is drilled and screw-threads are cut in the arm. Into these holes are screwed pivots *f*, the inner ends of which are smooth and project beyond the corresponding faces of the arms, as shown in Fig. 1. Into the center of the bar C is screwed a handle, E. The roller is attached to the frame by unscrewing one of the pivots *f*, inserting the other in one of the tubes *a*, and then bringing the other

tube *a* opposite the hole from which the pivot has been removed, and again screwing the pivot into place, so that its inner end shall be inclosed by the tube made ready to receive it. The roller is then securely pivoted to the frame and in condition to be used.

My roller possesses several advantages over others of the kind now in use. For lightness and cheapness it is believed to be unequaled, and the circumstance that the felt about the cylinder can be practically glued to the latter is an important one not found in connection with other rollers.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination, a paper-hanger's roller consisting of a solid wooden cylinder with recessed ends, and tube-sections *a*, inserted in said recessed ends, and rings B, whereby a flexible covering is secured to said wooden cylinder, said cylinder being journaled to a frame, C, with handle E, as and for the purpose described.

2. The roller for paper-hangers herein described, consisting of a solid wooden cylinder, A, with recessed ends, a layer of thick material, *b*, glued to the cylinder, a thin covering, *c*, rings B, for securing the covering *c* in position, and tubes *a*, all combined, substantially as set forth, and united by pivots *f* to a suitable frame, as and for the purpose described.

ALEXANDER McL. ROWLAND.

In presence of—

T. B. KNIFFIN,

D. A. CARPENTER.